

CLAIMS

We claim:

1. A method for compensating for drift in macroblocks of a partially decoded input bitstream, the macroblocks including intra-mode and inter-mode macroblocks, and each macroblock including DCT coefficients, and a motion vector, comprising:

- measuring an estimate of drift in the partially decoded input bitstream;
- translating the estimated of drift into an intra refresh rate;
- mapping the modes of inter-mode macroblock to inter-mode macroblock according to the refresh rate; and
- modifying the DCT coefficients and the motion vector for each changed macroblock in accordance with the mapping for each changed macroblock to compensate for drift.

2. The method of claim 1 further comprising:

- generating a difference signal from the DCT coefficients before and after quantizing; and
- measuring an energy of a difference signal to determine the estimate of the drift.

3. The method of claim 1 further comprising:

- generating a full-resolution drift compensating signal for each down-sampled macroblock; and

measuring an energy of the full-resolution drift compensation signal to determine the estimate of the drift.

4. The method of claim 1 further comprising:

measuring an error in truncated motion vectors.

5. The method of claim 1 further comprising:

generating a full-resolution drift compensating signal for each down-sampled macroblock;

measuring an energy of the full-resolution drift compensation signal to determine the estimate of the drift; and

measuring an error in truncated motion vectors.

6. The method of claim 1 further comprising:

translating according to a predetermined threshold.

7. The method of claim 1 where in the translating is proportional to the estimate of drift.

8. The method of claim 1 where in the translating depends on rate-distortion characteristics of the macroblocks.

9. An apparatus method for compensating for drift in macroblocks of a partially decoded input bitstream, the macroblocks including intra-mode and inter-mode

macroblocks, and each macroblock including DCT coefficients, and a motion vector, comprising:

means for measuring an estimate of drift in the partially decoded input bitstream;

means for translating the estimated of drift into an intra refresh rate;

means for mapping the modes of inter-mode macroblock to inter-mode macroblock according to the refresh rate; and

means for modifying the DCT coefficients and the motion vector for each changed macroblock in accordance with the mapping for each changed macroblock to compensate for drift.